UM-6VE0B-000-00

User's manual

Dual Control Lever (Di2)

User's manuals in other languages are available at :
http://si.shimano.com

IMPORTANT NOTICE

- Contact the place of purchase or a bicycle dealer for information on installation and adjustment of the products which are not found in the user's manual. A dealer's manual for professional and experienced bicycle mechanics is available on our website (http://si.shimano.com).
- Do not disassemble or alter this product.

For safety, be sure to read this user's manual thoroughly before use, and follow them for correct use.

Important Safety Information

Guidelines that require replacement, contact the place of purchase or a bicycle dealer.

⚠ WARNING

- **When the shifting switch is operated, the motor which drives the front derailleur will operate to the shifting position without stopping, so be careful not to get your fingers caught.**
- It is important to completely understand the operation of your bicycle's brake system. Improper use of your bicycle's brake system may result in a loss of control or a fall, which could lead to severe injury. Because each bicycle may handle differently, be sure to learn the proper braking technique (including brake lever pressure and bicycle control characteristics) and operation of your bicycle. This can be done by consulting your professional bicycle dealer and the bicycle's owners manual, and by practicing your riding and braking technique.
- If the front brake is applied too strongly, the wheel may lock and the bicycle may fall forward, and serious injury may result.
- Always make sure that the front and rear brakes are working correctly before you ride the bicycle.
- The required braking distance will be longer during wet weather. Reduce your speed and apply the brakes early and gently.
- If the road surface is wet, the tires will skid more easily. If the tires skid, you may fall off the bicycle. To avoid this, reduce your speed and apply the brakes early and gently.
- In the case of carbon levers, check before riding that there is no damage such as carbon separation or cracking. If damage is found, do not use it; contact the place of purchase or a bicycle dealer. Otherwise, the lever may break, and braking may become disabled.
- After reading the user's manual carefully, keep it in a safe place for later reference.

Note

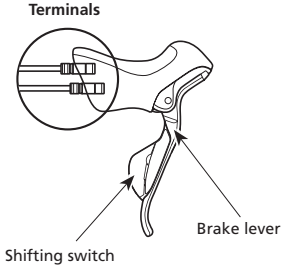
- Be sure to rotate the crank when carrying out any switch operations which are related to gear shifting.
- The components are designed to be fully waterproofed to withstand wet weather riding conditions; however, do not deliberately place them into water.
- Do not clean the bicycle in a high-pressure car wash. If water gets into any of the components, operating problems or rusting may result.
- Handle the products carefully, and avoid subjecting them to any strong shocks.
- Be careful not to let water get into the terminal.
- Do not use thinners or similar substances to clean the products. Such substances may damage the surfaces.
- In the case of carbon levers, wash them by using a soft cloth. Be sure to use a neutral detergent. Otherwise, the material may get damaged, and the strength may be affected.
- Avoid leaving the carbon levers in places where high temperatures are present. Also keep them well away from fire.
- Contact the place of purchase for updates of the product software. The most up-to-date information is available on the Shimano website.
- Also read the manuals for the brake and other equipment to be connected.
- Products are not guaranteed against natural wear and deterioration from normal use and aging.
- For maximum performance we highly recommend Shimano lubricants and maintenance products.

Regular inspections before riding the bicycle

Before riding the bicycle, check the following items. If any problems are found with the following items, contact the place of purchase or a bicycle dealer.

- Do the front and rear brakes work correctly?
- Does the brake lever have sufficient freeplay?
- Does the brake cable have any rust, fraying, or cracks?
- Have the brake shoes worn down to the grooves?
- Does gear shifting occur when the shifting switches are operated?
- Are the levers securely installed to the handlebar?
- Do any abnormal noises occur during operation?

Names of parts



Operation

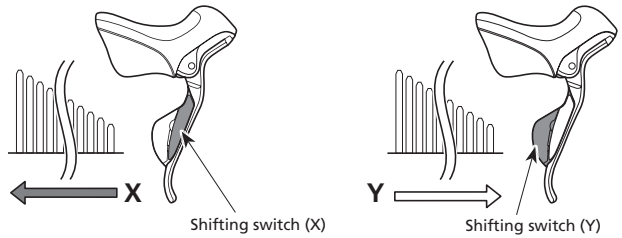
Gear shifting operation

Be sure to rotate the crank when carrying out any switch operations which are related to gear shifting.

Rear shifting switch operation (Initial settings)

< Shifting switch (X) >
The chain moves from a small rear sprocket to a larger rear sprocket.

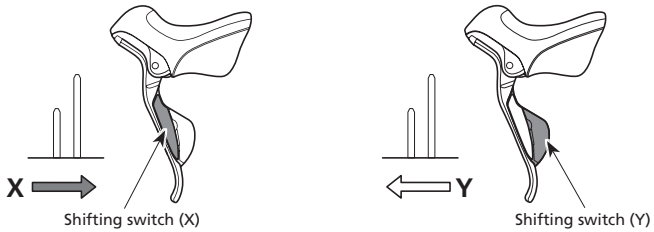
< Shifting switch (Y) >
The chain moves from a large rear sprocket to a smaller rear sprocket.



Front shifting switch operation (Initial settings)

< Shifting switch (X) >
The chain moves from the small chainring to the large chainring.

< Shifting switch (Y) >
The chain moves from the large chainring to the small chainring.

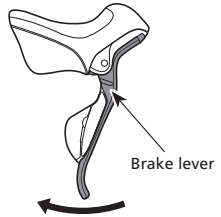


If the chain falls off on the inside, keep pressing shifting switch (X) for 1 second or more to move the front derailleur to the outermost position, and then keep it pressed for 10 seconds in order to reset the chain.

Actual behavior may differ depending on the connected components and software version.

Shifting up and down of the shifting switches (X) and (Y), switching of the rear shifting switch and the front shifting switch, and setting of the multi shift mode are possible.
* Contact the place of purchase for details on changing the shifting switches.

Braking operation



SHIMANO

SHIMANO AMERICAN CORPORATION
One Holland, Irvine, California 92618, U.S.A. Phone: +1-949-951-5003

SHIMANO EUROPE B.V.
Industrieweg 24, 8071 CT Nunspeet, The Netherlands Phone: +31-341-272222

SHIMANO INC.
3-77 Oimatsu-cho, Sakai-ku, Sakai-shi, Osaka 590-8577, Japan

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(English)
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UM-7FK0A-001-00

User's manual

Battery Mount

User's manuals in other languages are available at :
http://si.shimano.com

IMPORTANT NOTICE

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- Do not disassemble or alter this product.

For safety, be sure to read this user's manual thoroughly before use, and follow them for correct use.

Important Safety Information

Guidelines that require replacement, contact the place of purchase or a bicycle dealer.

⚠ WARNING

- After reading the user's manual carefully, keep it in a safe place for later reference.

Note

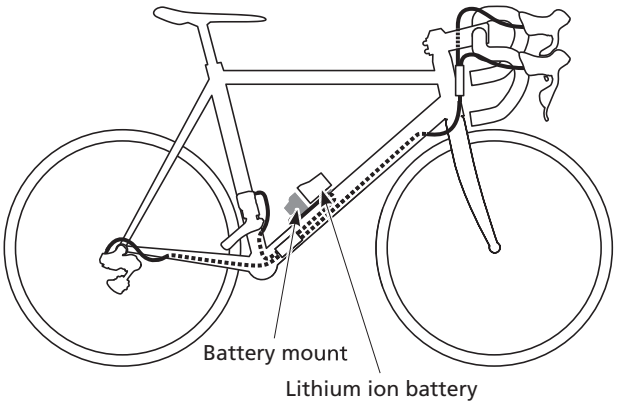
- This is a small waterproof connector. Do not repeat connecting and disconnecting it. It may impair the function.
- The components are designed to be fully waterproofed to withstand wet weather riding conditions; however, do not deliberately place them into water.
- Do not clean the bicycle in a high-pressure car wash. If water gets into any of the components, operating problems or rusting may result.
- Handle the products carefully, and avoid subjecting them to any strong shocks.
- Be careful not to let water get into the terminal.
- Do not use thinners or similar substances to clean the products. Such substances may damage the surfaces.
- Contact the place of purchase for updates of the product software. The most up-to-date information is available on the Shimano website.
- Products are not guaranteed against natural wear and deterioration from normal use and aging.
- For maximum performance we highly recommend Shimano lubricants and maintenance products.

Regular inspections before riding the bicycle

Before riding the bicycle, check the following items. If any problems are found with the following items, contact the place of purchase or a bicycle dealer.

- Is the battery mount attached to the bottom of the bottle cage snugly?
- Is the battery attached to the battery mount snugly?

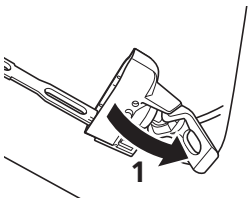
Names of parts



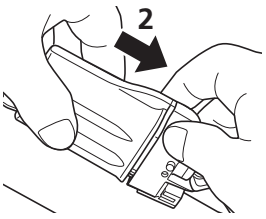
Operation

Installation and removal of the battery

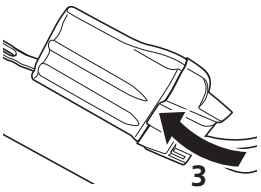
How to install



Open the clamp.



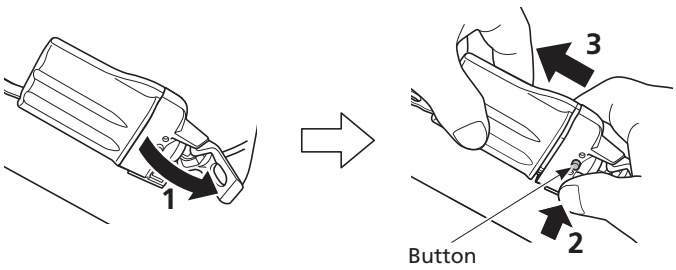
Install the battery so that it follows the groove in the battery mount.



Close the clamp until it clicks into place.

How to removal

Open the clamp, press the button, and pull the battery to remove it.



SHIMANO

SHIMANO AMERICAN CORPORATION
One Holland, Irvine, California 92618, U.S.A. Phone: +1-949-951-5003

SHIMANO EUROPE B.V.
Industrieweg 24, 8071 CT Nunspeet, The Netherlands Phone: +31-341-272222

SHIMANO INC.
3-77 Oimatsu-cho, Sakai-ku, Sakai-shi, Osaka 590-8577, Japan

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UM-7DG0A-004-00

User's manual

Battery Charger (SM-BCR1)

User's manuals in other languages are available at :
http://si.shimano.com

IMPORTANT NOTICE

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- Do not disassemble or alter this product.

For safety, be sure to read this user's manual thoroughly before use, and follow them for correct use.

Important Safety Information

Guidelines that require replacement, contact the place of purchase or a bicycle dealer.

Be sure to observe the following in order to avoid burns or other injury from fluid leakages, overheating, fire or explosions.

⚠ DANGER

- Do not get the charger wet or use it while it is wet, and do not touch or hold it with wet hands.
  ⇨If this is not observed, problems with operation or electric shocks may occur.
- Do not cover the charger with a cloth or similar while it is in use.
  ⇨If this is not observed, heat may build up and the case may become deformed, or fire or overheating may occur.
- Do not disassemble or modify the charger.
  ⇨If this is not observed, electric shocks or injury may occur.
- Use the charger at the specified power supply voltage only.
  ⇨If a power supply voltage other than that specified is used, fire, explosions, smoke, overheating, electric shocks or burns may occur.

⚠ WARNING

- Be sure to hold the power cable by the power plug when connecting and disconnecting the power plug from the electrical outlet.
  ⇨If you do not hold the power cable by the power plug, fire or electric shocks may occur.
  * If heat or acrid-smelling smoke is coming out from the power plug.
  * There may be a bad connection inside the power plug.
- Do not touch metallic parts of the charger or the AC adapter if there is a lighting storm.
  ⇨If lightning strikes, electric shocks may occur.
- Do not overload the electrical outlet with appliances beyond its rated capacity, and use only a 100 – 240 V AC electrical outlet.
  ⇨If the electrical outlet is overloaded by connecting too many appliances using adapters, overheating resulting in fire may occur.
- Do not damage the power cord or power plug.
  (Do not damage, process, forcibly bend, twist or pull them, bring them near hot objects, place heavy objects on them or bundle them tightly together.)
  ⇨If they are used while damaged, fire, electric shocks or short-circuits may occur.
- Do not use the charger with commercially-available electrical transformers designed for overseas use, as they may damage the charger.
- Always be sure to insert the power plug as far as it will go.
  ⇨If this is not observed, fire may occur.
- After reading the user's manual carefully, keep it in a safe place for later reference.

⚠ CAUTION

- Disconnect the power plug from the electrical outlet before cleaning the charger.

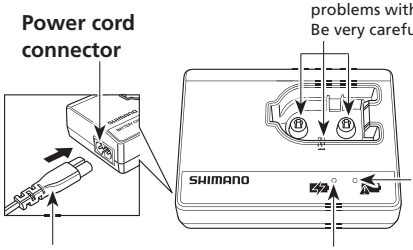
Note

- Use this instrument under the direction of a safety supervisor or the direction for use. Do not allow physically, sensory, or mentally impaired persons, inexperienced persons, or persons with no required knowledge including children to use this instrument.
- Do not allow children to play near this instrument.
- Products are not guaranteed against natural wear and deterioration from normal use and aging.
- For maximum performance we highly recommend Shimano lubricants and maintenance products.

Main specifications	
Input	100 -- 240 V AC, 50/60 Hz
Output	8.4 V DC, 0.55 A
Dimensions	Approx. 100 mm (W) x 30 mm (H) x 72 mm (D)
Weight	Approx. 110 g
Operating temperature	0 – 45 °C
Storage temperature	–20 – 70 °C

Names of parts

■ **Charger (SM-BCR1)**
This charger is a special charger for use in charging Shimano lithium ion batteries (SM-BTR1). Never insert any other type of batteries, otherwise bursting or fire may occur.
* Make sure that you thoroughly understand the general Safety Information for this product before use.

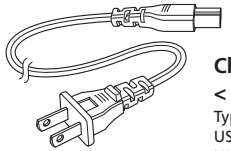


Electrical contacts:
If these are modified or damaged, problems with operation will occur.
Be very careful when handling them.

ERROR indicator:
This flashes when there is an error.

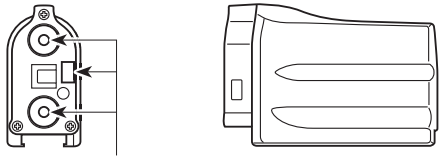
Power cord:
Insert into the connector.
* Insert as far as it will go.

CHARGE indicator:
This illuminates while charging is in progress.



Charger cord
< Sold separately >
Type No.
USA/Canada : SM-BCC1 2
UK : SM-BCC1 6

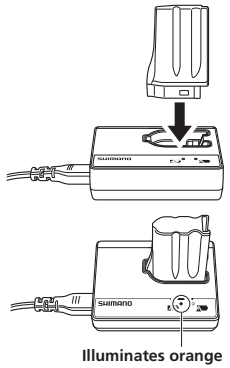
■ **Special battery (SM-BTR1)**
This is a lithium ion battery. Use the special charger (SM-BCR1) to charge it. Never use any other charger to charge the battery, otherwise bursting or fire may occur.



Electrical contacts:
If these are modified or damaged, problems with operation will occur.
Be very careful when handling them.

Charging method

1. Insert the power plug of the charger into an electrical outlet.
2. Insert the battery (SM-BTR1) into the charger (SM-BCR1) as far as it will go.
   * The charging time is approximately 1.5 hours. (Note that the actual time will vary depending on the amount of charge remaining in the battery.)
3. When the CHARGE indicator (orange) switches off, charging is complete.
   * If the ERROR indicator flashes, it means that there may be a problem with the battery. Refer to "Error Judgment Details" for more information.
4. Disconnect the power plug of the charger from the electrical outlet and store the charger in a suitable place as specified in the Safety Precautions.



Illuminates orange

Error Judgment Details

What to do if an error occurs

- Remove the battery from the charger, disconnect the power plug of the charger from the electrical outlet, and then repeat the charging operation.
- If charging is still not possible after the above steps have been carried out, the ambient temperature may be too low or too high, or there may be a problem with the battery.

If charging is not possible, the ERROR indicator on the charger will flash.

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SHIMANO AMERICAN CORPORATION
One Holland, Irvine, California 92618, U.S.A. Phone: +1-949-951-5003

SHIMANO EUROPE B.V.
Industrieweg 24, 8071 CT Nunspeet, The Netherlands Phone: +31-341-272222

SHIMANO INC.
3-77 Oimatsu-cho, Sakai-ku, Sakai-shi, Osaka 590-8577, Japan

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INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS
- SAVE THESE INSTRUCTIONS.

DANGER
- TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.

For connection to a supply not in the U.S.A., use an attachment plug adapter of the proper configuration for the power outlet, if needed.
This power unit is intended to be correctly orientated in a vertical or floor mount position.

Battery to be recharged for this product is follows
Brand Name : SHIMANO
Battery Type : SM-BTR1
Rating : DC7.4V 500mAh

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Representative plug of power supply cord of countries around the world.

A Type (American Type) | B Type (British Type) | BF Type (British Type) | B3 Type (British Type) | C Type (CEE Type) | SE Type (CEE Type) | O Type (Ocean Type)

Attention: Power cord meeting demands from each country shall be used.

-For only the United States
Use a UL Listed, 1.8-3m (6-10ft), Type SPT-2 or NISPT-2, AWG no.18 power supply cord, rated for 125V minimum 1A, with a non-polarized NEMA 1-15P plug rated for 125V 10A."

The representative supply voltage and plug type are described in this chart.
Depend on an area, Different type of plug and supply voltage are used.

Europe

Countries	Voltage	Frequency (Hz)	Plug type
Austria	230	50	C
Belgium	230	50	C
Czech	220	50	C
Denmark	230	50	C
Finland	230	50	C
France	230	50	C
Germany	230	50	C
Greece	220	50	C
Hungary	220	50	C
Iceland	230	50	C
Ireland	230	50	C/BF
Italy	220	50	C
Luxemburg	230	50	C
Netherlands	230	50	C
Norway	230	50	C
Poland	220	50	C
Portugal	230	50	C
Romania	220	50	C
Russia	220	50	C
Slovak	220	50	C
Spain	127/230	50	C
Sweden	230	50	C
Switzerland	230	50	C
UK	240	50	BF

Asia

Countries / Regions	Voltage	Frequency (Hz)	Plug type
China	220	50	A
Hong Kong	200/220	50	BF
India	230/240	50	C
Indonesia	127/230	50	C
Japan	100	50/60	A
Korea(rep)	220	60	C
Malaysia	240	50	BF
Philippines	220/230	60	A/C
Singapore	230	50	BF
Taiwan	110	60	A
Thailand	220	50	C/BF
Vietnam	220	50	A/C

Oceania

Countries	Voltage	Frequency (Hz)	Plug type
Australia	240	50	O
New Zealand	230/240	50	O

North America

Countries	Voltage	Frequency (Hz)	Plug type
Canada	120	60	A
USA	120	60	A

Central America

Countries	Voltage	Frequency (Hz)	Plug type
Bahamas	120/240	60	A
Costa Rica	110	60	A
Cuba	110/220	60	A/C
Dominican(rep)	110	60	A
El Salvador	110	60	A
Guatemala	120	60	A
Honduras	110	60	A
Jamaica	110	50	A
Mexico	120/127	60	A
Nicaragua	120/240	60	A
Panama	110/220	60	A

South America

Countries	Voltage	Frequency (Hz)	Plug type
Argentina	220	50	C/BF/O
Brazil	127/220	60	A/C
Chile	220	50	C
Colombia	120	60	A
Peru	220	60	A/C
Venezuela	120	60	A

Middle East

Countries	Voltage	Frequency (Hz)	Plug type
Iran	220	50	C/BF
Iraq	220	50	C/BF
Israel	230	50	C
Saudi Arabia	127/220	50	A/C/BF
Turkey	220	50	C
UAE	240	50	C/BF

Africa

Countries	Voltage	Frequency (Hz)	Plug type
Algeria	127/220	50	C
Congo(dem)	220	50	C
Egypt	220	50	C
Ethiopia	220	50	C
Kenya	240	50	C/BF
Nigeria	230	50	C/BF
South Africa	220/230	50	C/BF
Tanzania	230	50	C/BF
Tunisia	220	50	C

Disposal information for countries outside the European Union

This symbol is only valid within the European Union.
Contact the place of purchase or your nearest Shimano agent for advice on disposing of used batteries.

ME01

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SHIMANO AMERICAN CORPORATION
One Holland, Irvine, California 92618, U.S.A. Phone: +1-949-951-5003

SHIMANO EUROPE B.V.
Industrieweg 24, 8071 CT Nunspeet, The Netherlands Phone: +31-341-272222

SHIMANO INC.
3-77 Oimatsu-cho, Sakai-ku, Sakai-shi, Osaka 590-8577, Japan

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The following instructions must be observed at all times in order to prevent personal injury and physical damage to equipment and surroundings.

■ **The instructions are classified according to the degree of danger or damage which may occur if the product is used incorrectly.**

⚠ DANGER	Failure to follow the instructions will result in death or serious injury.
⚠ WARNING	Failure to follow the instructions could result in death or serious injury.
⚠ CAUTION	Failure to follow the instructions could cause personal injury or physical damage to equipment and surroundings.

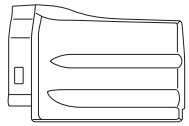
Be sure to observe the following in order to avoid burns or other injury from fluid leakages, overheating, fire or explosions.

⚠ DANGER	
Do not use anything other than the special charger to charge the battery. In addition, do not use the battery for any devices other than the 7970 series.	If any non-specified items are used, fire, overheating or leakages may occur.
Do not heat the battery or throw it into fire.	If this is not observed, fire or bursting may occur.
Do not leave the battery in places which may exceed 60°C in temperature, such as places which are exposed to direct sunlight inside vehicles on hot days or near stoves.	If this is not observed, leakages, overheating or bursting may cause fire, burns or other injury to occur.
Do not disassemble or modify the battery or apply solder directly to the battery terminals.	
Do not connect the (+) and (-) terminals with metallic objects. Do not carry or store the battery together with metallic objects such as necklaces or hairpins.	If this is not observed, short-circuits, overheating, burns or other injury may occur.
If any liquid leaking from the battery gets into the eyes, immediately wash the affected area with clean water without rubbing the eyes, and then seek medical advice. If this is not done, blindness may occur.	
⚠ WARNING	
If charging is not complete after 1.5 hours of charging time has elapsed, stop the charging.	If this is not observed, fire, bursting or overheating may occur.
Do not place the battery into fresh water or sea water, and do not allow the battery terminals to get wet.	
The operating temperature ranges for the battery are given below. Do not use the battery in temperatures outside these ranges. 1. During discharge and storage: -20°C - 60°C 2. During charging: 0°C - 45°C	If the battery is used or stored in temperatures which are outside these ranges, fire, injury or problems with operation may occur.
Do not use the battery if it has any noticeable scratching or other external damage.	If this is not observed, bursting, overheating or problems with operation may occur.
Do not subject the battery to strong shocks or throw it.	
Do not use the battery if leakages, discoloration, deformation or any other abnormalities occur.	
If any leaked fluid gets on your skin or clothes, wash it off immediately with clean water. The leaked fluid may damage the skin.	
⚠ CAUTION	
Store the battery in a safe place away from the reach of infants and pets.	
If not using the battery for long periods, remove it and store it away in a safe place.	
Contact the place of purchase or your nearest Shimano agent for advice on disposing of used batteries.	

Technical Service Instructions **SI-7DH0A-002**

SM-BTR1

Lithium Ion Battery

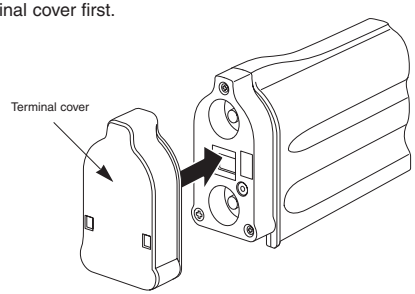


■ Main specifications

Battery	Lithium ion
Nominal capacity	530 mAh
Weight	71 g standard
Operating temperature range	When discharging : -20 – 60 °C When charging : 0 – 45 °C
Storage temperature range	-20 – 60 °C
Nominal voltage	7.4 V

When storing the battery

When storing the battery away, remove the battery from the system and install the terminal cover first.



- If storing the battery away for a long period, remove it when the indicator is at the half-way level (for the FLIGHT DECK) or when the green indicator is flashing (for the SM-EW79A) in order to prolong its useful life.
  It is recommended that you check the condition of the battery about once every half a year.
- If the battery is stored in cold locations, the performance of the battery may drop and the length of time that it can be used may become shortened.

Battery life

- The battery is a consumable item. The battery will gradually lose its capacity for charging after repeated use and after time has passed. If the length of time that the battery can be used becomes extremely short, it has probably reached the end of its life, and so you will need to purchase a new battery.
- The life of the battery will vary depending on factors such as the storage method, the usage conditions, the surrounding environment and the characteristics of the individual battery pack.

Guide to charging time

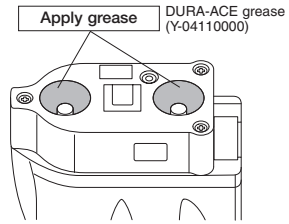
The charging time is approximately 1.5 hours.
(Note that the actual time will vary depending on the amount of charge remaining in the battery.)

* Refer to the Service Instructions for the SM-BCR1 for details on the charging method.

Proper use of the battery

- If the battery feels difficult to insert or remove, apply specified grease (DURA-ACE grease).

Apply specified grease to the part that touches the O-ring at the side.



Note:

About 625 miles of riding is possible at full charge, and if the remaining charge in the battery drops to 25%, about 155 miles of riding is still possible.

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MO04

SHIMANO AMERICAN CORPORATION
One Holland, Irvine, California 92618, U.S.A. Phone: +1-949-951-5003

SHIMANO EUROPE B.V.
Industrieweg 24, 8071 CT Nunspeet, The Netherlands Phone: +31-341-272222

SHIMANO INC.
3-77 Oimatsu-cho, Sakai-ku, Sakai-shi, Osaka 590-8577, Japan

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UM-5ND0B-000-00

User's manual

Front Derailleur (Di2)

User's manuals in other languages are available at :
http://si.shimano.com

IMPORTANT NOTICE

- Contact the place of purchase or a bicycle dealer for information on installation and adjustment of the products which are not found in the user's manual. A dealer's manual for professional and experienced bicycle mechanics is available on our website (http://si.shimano.com).
- Do not disassemble or alter this product.

For safety, be sure to read this user's manual thoroughly before use, and follow them for correct use.

Important Safety Information

Guidelines that require replacement, contact the place of purchase or a bicycle dealer.

⚠ WARNING

- **When the shifting switch is operated, the motor which drives the front derailleur will operate to the shifting position without stopping, so be careful not to get your fingers caught.**
- Be careful not to let the cuffs of your clothes get caught in the chain while riding, otherwise you may fall off the bicycle.
- After reading the user's manual carefully, keep it in a safe place for later reference.

Note

- Be careful not to let water get into the terminal.
- The components are designed to be fully waterproofed to withstand wet weather riding conditions; however, do not deliberately place them into water.
- Do not clean the bicycle in a high-pressure car wash. If water gets into any of the components, operating problems or rusting may result.
- Handle the products carefully, and avoid subjecting them to any strong shocks.
- Do not use thinners or similar substances to clean the products. Such substances may damage the surfaces.
- Contact the place of purchase for updates of the product software. The most up-to-date information is available on the Shimano website.
- Products are not guaranteed against natural wear and deterioration from normal use and aging.
- For maximum performance we highly recommend Shimano lubricants and maintenance products.

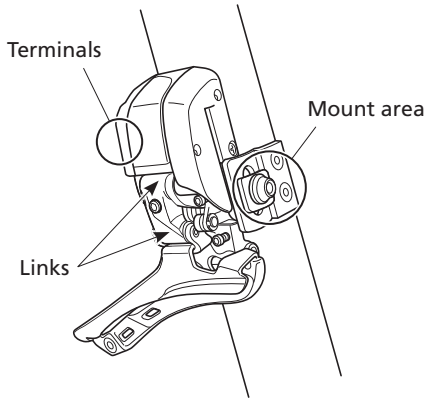
Regular inspections before riding the bicycle

Before riding the bicycle, check the following items. If any problems are found with the following items, contact the place of purchase or a bicycle dealer.

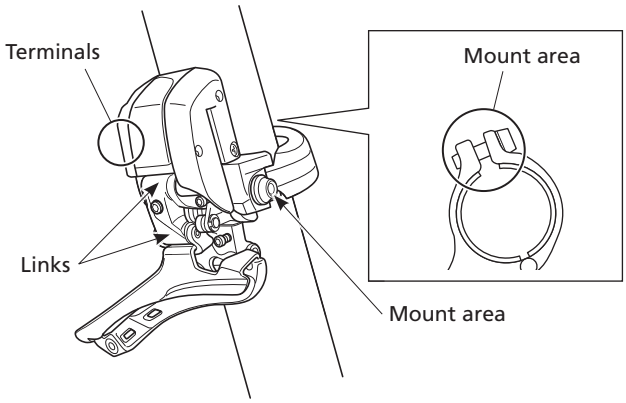
- Is gear shifting carried out smoothly?
- Is there any looseness in the mount area?
- Do the links have large amounts of play in them?
- Are the derailleurs making any abnormal noises?

Names of parts

Type F



Type B



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SHIMANO AMERICAN CORPORATION
One Holland, Irvine, California 92618, U.S.A. Phone: +1-949-951-5003

SHIMANO EUROPE B.V.
Industrieweg 24, 8071 CT Nunspeet, The Netherlands Phone: +31-341-272222

SHIMANO INC.
3-77 Oimatsu-cho, Sakai-ku, Sakai-shi, Osaka 590-8577, Japan

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UM-5XW0A-001-00

User's manual

RD-6770

Rear derailleur

* User's manuals in other languages are available at :
http://techdocs.shimano.com/techdocs/index.jsp

INTRODUCTION

Contact the place of purchase or a bicycle dealer for information on installation and adjustment of the products which are not found in the user's manual.
A dealer's manual for professional and experienced bicycle mechanics is available on our website (http://techdocs.shimano.com/techdocs/index.jsp).

For safety, be sure to read this user's manual thoroughly before use, and follow them for correct use.

The following instructions must be observed at all times in order to prevent personal injury and physical damage to equipment and surroundings.

The instructions are classified according to the degree of danger or damage which may occur if the product is used incorrectly.

⚠ DANGER

Failure to follow the instructions will result in death or serious injury.

⚠ WARNING

Failure to follow the instructions could result in death or serious injury.

⚠ CAUTION

Failure to follow the instructions could cause personal injury or physical damage to equipment and surroundings.

Important Safety Information

⚠ WARNING

- **Maintenance interval depends on the usage and riding circumstances. Clean regularly the chain with an appropriate chaincleaner. Never use alkali based or acid based solvents such as rust cleaners. If those solvent be used chain might break and cause serious injury.**
- Check that the tension of the chain is correct and that the chain is not damaged. If the tension is too weak or the chain is damaged, the chain should be replaced. If this is not done, the chain may break and cause serious injury.
- After reading the user's manual carefully, keep it in a safe place for later reference.

Note

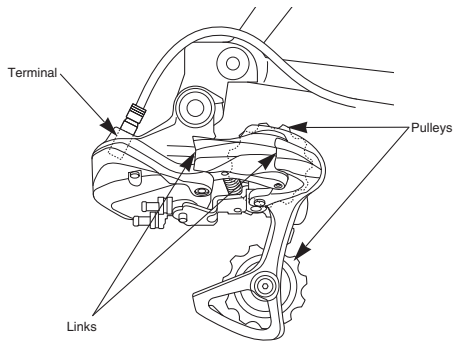
- The components are designed to be fully waterproofed to withstand wet weather riding conditions; however, do not deliberately place them into water.
- Do not clean the bicycle in a high-pressure car wash. If water gets into any of the components, operating problems or rusting may result.
- Handle the products carefully, and avoid subjecting them to any strong shocks.
- Contact the place of purchase for updates of the product software. The most up-to-date information is available on the Shimano website.
- Do not use thinners or similar substances to clean the products. Such substances may damage the surfaces.
- If gear shifting operations cannot be carried out smoothly, clean the derailleur and lubricate all moving parts.
- If the chain keeps skipping, ask the place of purchase to replace the chainrings, sprockets and/or the chain.
- If there is a large amount of play in the pulleys which causes a lot of annoying noise, ask the place of purchase to replace the pulleys.
- You should periodically wash the sprockets in a neutral detergent and then lubricate them again. In addition, cleaning the chain with neutral detergent and lubricating it can be a effective way of extending the useful life of the sprockets and the chain.
- Be careful not to let water get into the terminal.
- Parts are not guaranteed against natural wear or deterioration resulting from normal use.
- For maximum performance we highly recommend Shimano lubricants and maintenance products.

Regular inspections before riding the bicycle

Before riding the bicycle, check the following items. If any problems are found with the following items, contact the place of purchase or a bicycle dealer.

- Is gear shifting carried out smoothly?
- Do the links have large amounts of play in them?
- Do the pulleys have large amounts of play in them?
- Are the derailleurs making any abnormal noises?
- Is the chain stretched?
- Is there any noticeable damage to the chain?

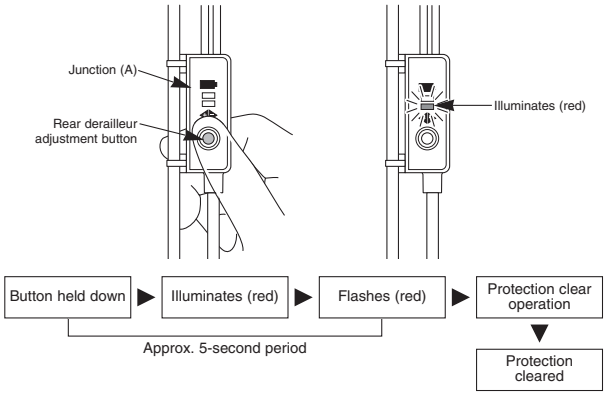
Names of parts



About the protection function

* Rotate the front chainwheel while restoring operation after the protection function has been activated.

If the bicycle receives a strong impact, the protection function operates and the connection between the motor and the link is momentarily severed so that the rear derailleur will no longer operate. This is done in order to protect the system at times such as if the bicycle falls over. If this happens, press the rear derailleur adjustment button on junction (A) of the SM-EW67-A-E for 5 seconds or more. This will restore the connection between the motor and the link and clear the protection function for the rear derailleur. If the connection is not restored, push/pull the cage sideways or move it forward and backward by hand. Operate the shifting switches to check that the connection has been restored.



When the red LED on junction (A) is illuminated, the rear derailleur cannot shift gears.
Press the rear derailleur adjustment button until the red LED turns off.

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